



**Coupling Variable Settings**

Variables	Source	Destination
u	scalar	Geon1:sub 1.2 -> Geon2:sub 1
v	scalar	Geon2:sub 1 -> Geon1:sub 1.2

Variable name:

Variable type:

☒ On top

FIG. 51

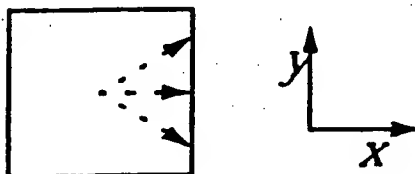


FIG. 52

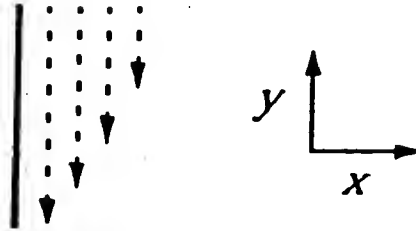


FIG. 53A

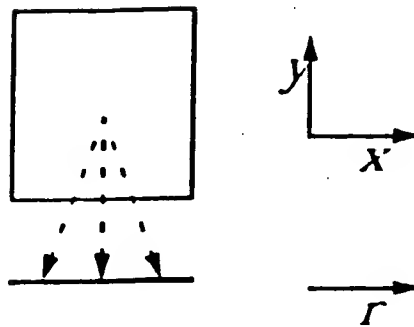


FIG. 53B

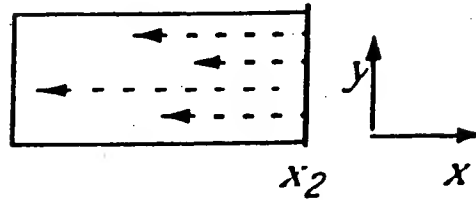


FIG. 54

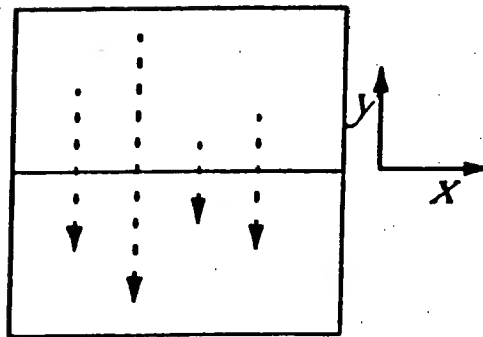


FIG. 55A

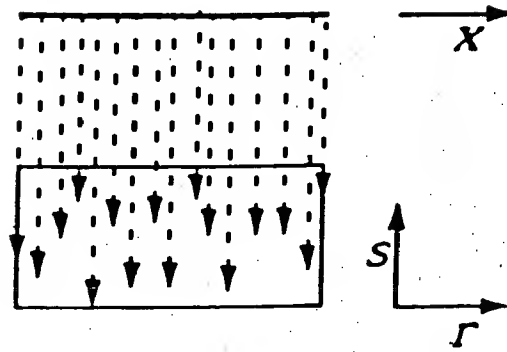


FIG. 55B

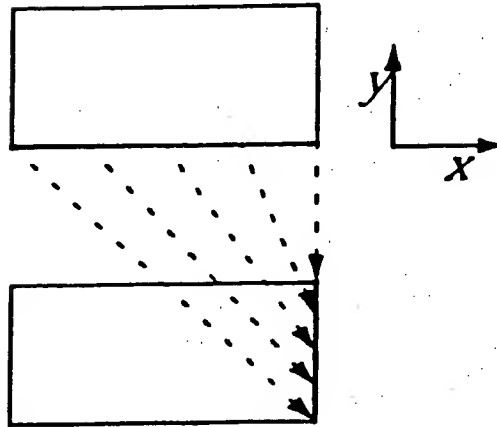


FIG. 55C

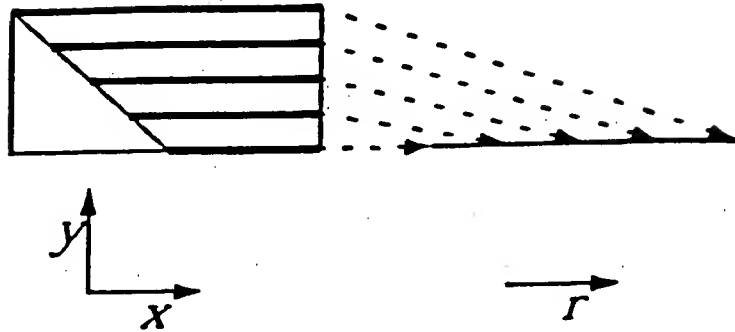


FIG. 56A

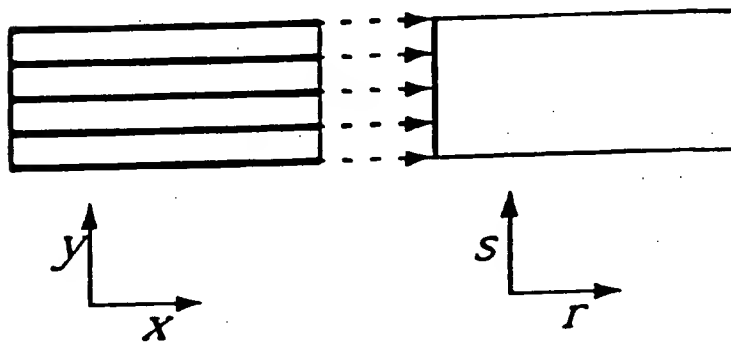


FIG. 56B

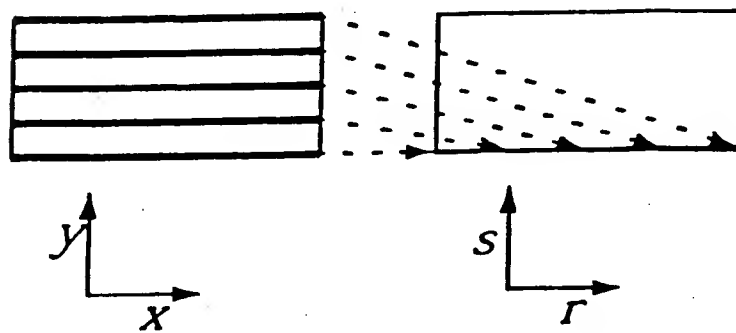


FIG. 56C

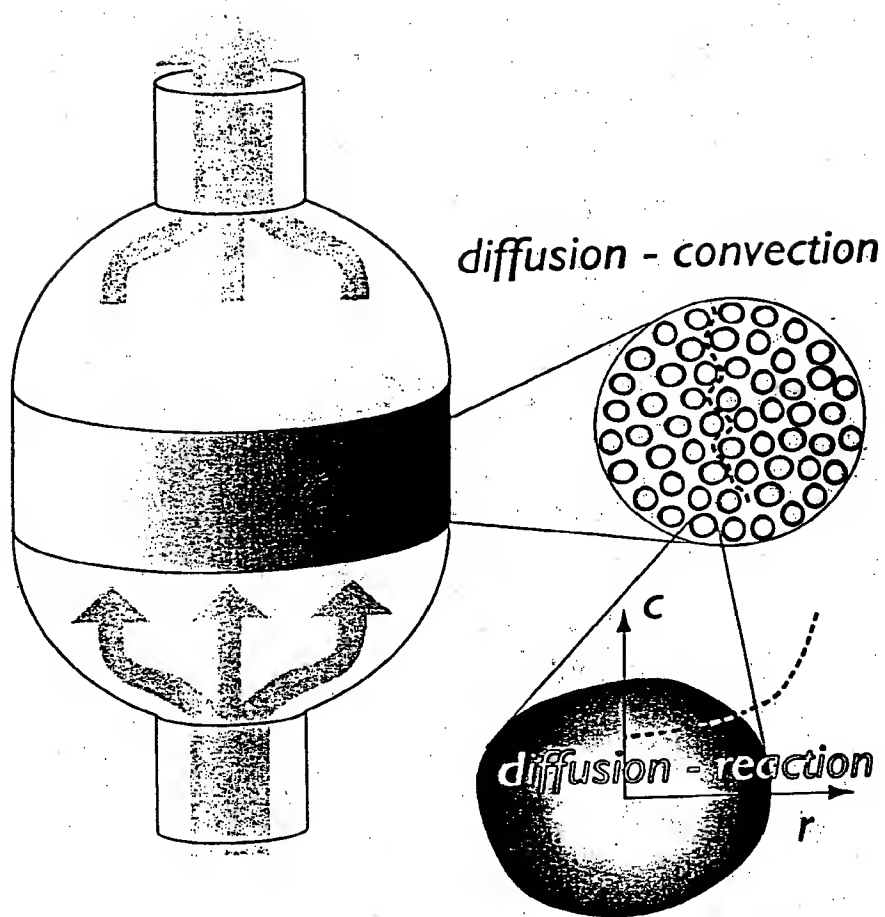


FIG. 57

**Coupling Variable Settings**

Variables	Source	Destination
C x	extrusion	Geon2:sub 1 -> Geon1:bn2 3
Ndotn x	extrusion	Geon1:sub -> Geon1:sub

Variable name:

Variable type:

☒ On top

FIG. 58

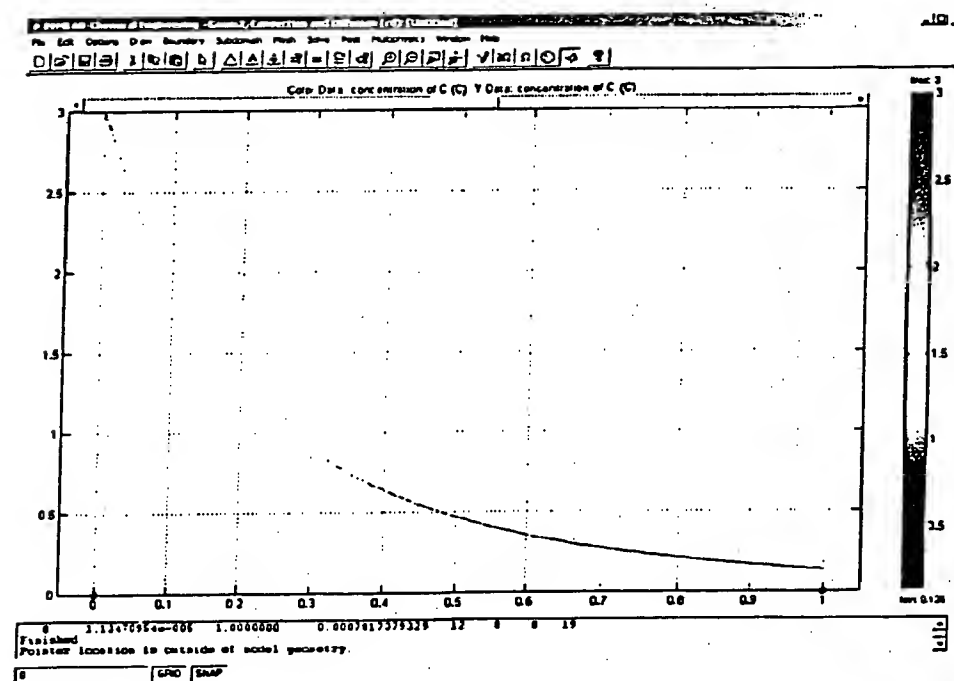


FIG. 59

Contour: x Height: concentration of c1 (c1) Line: c1r Line Z: c1r/20

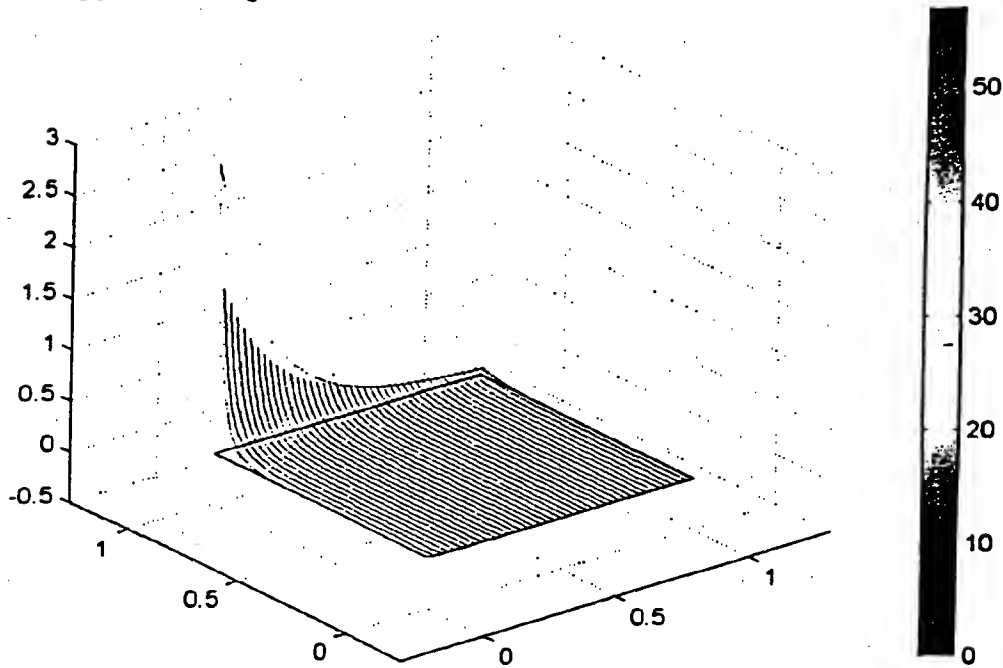


FIG. 60

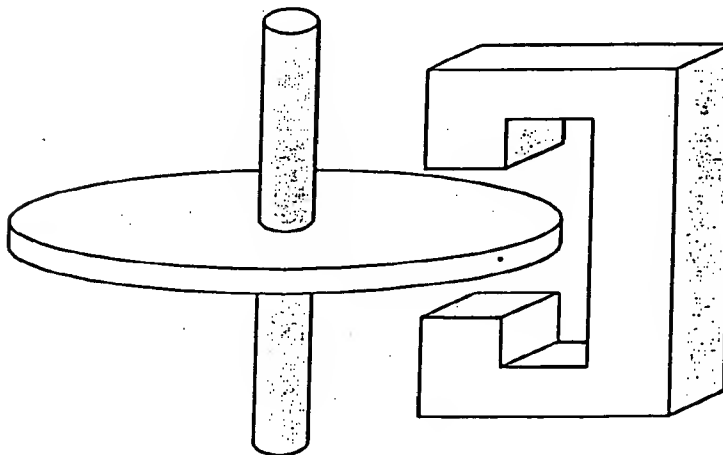


FIG. 61



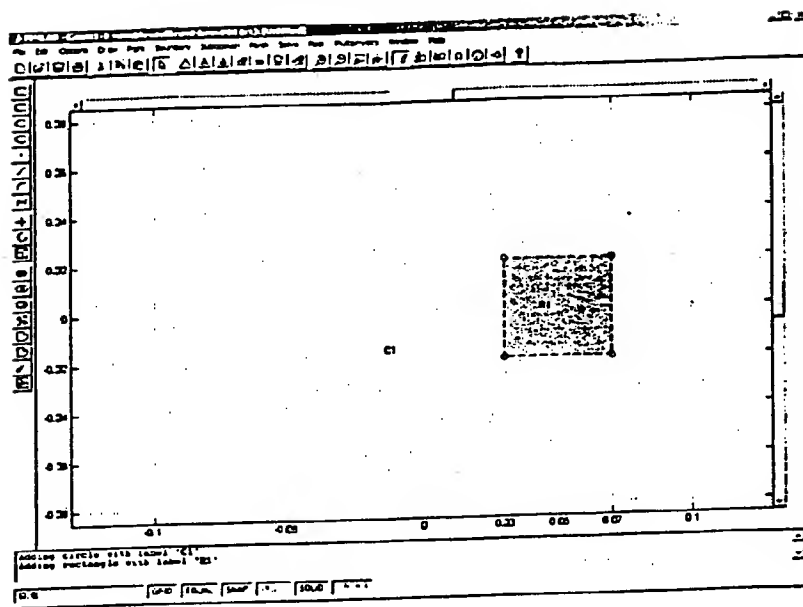


FIG. 62

Expression Variable Settings

Name	Type	Defined in
B0	subdomain	Geonl:sub

Variable name:

Variable type:

☒ On top

FIG. 63

Expression Variable Settings

Variables | Definition

Variable: B0

Domain selection

Geometry: Geom1

Level: subdomain

1  
2

Select by group

Definition ☒ Copy from 2

Expression: 1e-3

☒ On top OK Cancel Apply

FIG. 64

Mesh Parameters

General mesh parameters

Max edge size, general: 0.04

Mesh growth rate: 1.3

Mesh curvature factor: 0.3

Symmetry boundaries:

☒ Jiggle mesh

Mesh smoothing parameters

Optimization method: mean

Number of jiggle iterations:

Refinement method: regular

<< Less

Local element size

Max element size near vertices:

Max element size for edges:

Max element size for subdomains: 20.01

Number of elements

Total number of elements:

Number of elements per edge:

Mesh size expression:

Geometry resolution parameters

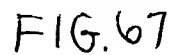
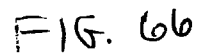
Default, vertices per edge: 10

Specified, vertices per edge:

Remesh OK Cancel

FIG. 65

## Page: 11 of 14



**Coupling Variable Settings**

Variables | Source | Destination |

Variable: M

Domain selection

Geometry: **Geom1**

Level: **subdomain**

☐ Select by group

Definition ☒ Copy from:

Integrand:  $(B+80)*y*Bx-x*By/\mu$

Integration order: **2**

Local mesh transformation:

x

y

z

☒ On top

FIG. 68

**Coupling Variable Settings**

Variables | Source | Destination |

Variable: M

Domain selection

Geometry: **Geom2**

Level: **subdomain**

☐ Select by group

Definition ☒ Copy from:

☒ Active in this domain

Evaluation, point transformation:

x

y

z

☒ On top

FIG. 69

**Coupling Variable Settings**

Variables	Source	Destination
Name	Type	Defined from → Available in
M	scalar	Geom1:sub 1,2 → Geom2:sub 1
w	scalar	Geom2:sub 1 → Geom1:sub 1,2

Variable name:

Variable type:

☒ On top

FIG. 70

**Cross-Section Plot Parameters**

Port plot

Port expression:  ☐ Smooth

Select port via

☐ Coordinates ☐ Vertices

FIG. 71

NEW SHEET

Inventors: Lars Langemyr et al.

Serial No.: 09/995,222

Filed: November 27, 2001

Title: A METHOD FOR ASSEMBLING THE FINITE...

Docket No.: 801939/111

Page: 14 of 14

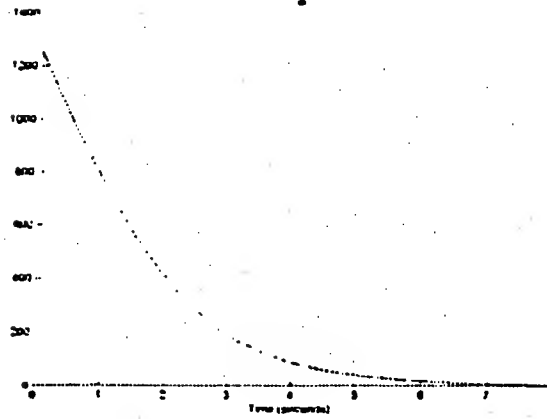


FIG. 72A

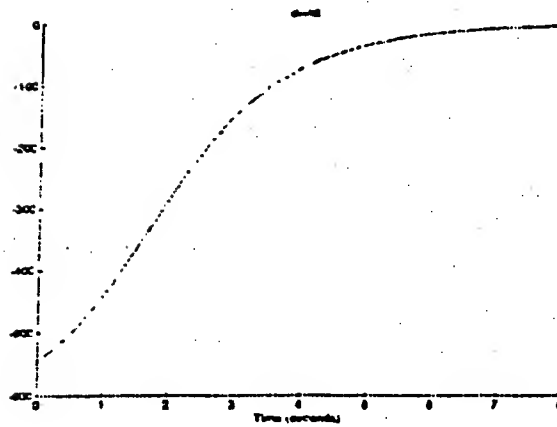


FIG. 72B